

CLAIMS

1. A differential amplifier, comprising:
 - two amplifier transistors arranged in parallel paths and having emitters, respectively;
 - a compensation resistor connecting the emitters of said two amplifier transistors and having a negative temperature coefficient;
 - a common emitter line connected to the emitters of said two amplifier transistors; and
 - a current source, connected to said common emitter line, to produce a quiescent current independent of temperature.
2. The differential amplifier as claimed in claim 1, wherein said compensation resistor is a negative temperature coefficient resistor.
3. The differential amplifier as claimed in claim 2, wherein said current source is connected to a reference voltage and includes
 - a bias resistor;
 - a bias transistor in series with said bias resistor and having a base and an emitter; and
 - an operational amplifier having an output connected to the base of said bias transistor, a first input connected to the emitter of said bias transistor, and a second input connected to the reference voltage with respect to said current to be applied.
4. The differential amplifier as claimed in claim 3, wherein a bandgap norm is used for the reference voltage.